

# M44A

2-way bi-amplified active stage monitor

**Montarbo**  
Made in Italy



Compact size, high sound pressure and high margins of gain before feedback, combined with extreme clarity and maximum transparency. This is what musicians and sound technicians demand from a stage monitor; and this is what they'll find in our M44A model, all in a compact, lightweight and ultra-flat package, capable of being heard without being seen by the audience.

M44A features a coaxial driver design which ensures maximum phase coherence.

## ARCHITECTURE

- M44A utilizes a specially designed coaxial unit allowing for great sonic accuracy: it houses a 15" neodymium magnet woofer and a 1.5" neodymium compression driver with titanium diaphragm.
- The built-in electronics includes:
  - 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on. The two on-board power amplifiers deliver a total output power of 500 W divided into 350 W for the bass section and 150 W for the mid/high section.
  - 2 active dynamic processors, which optimise the specific features of each component and provide direct control of the operation of the systems, ensuring a constantly flat frequency response. They feature independent time constants (and operating thresholds that are sensitive to line voltage) and limit any excessive voice coil movement under the most demanding operating conditions. Unimpeded operation is guaranteed even when the system is subjected to extreme line voltage excursions.
  - a high slope active electronic crossover (24dB/oct. Linkwitz-Riley), guaranteeing phase coherency and perfect overlapping of acoustic emissions of the transducers in the crossover region.



## FEATURES

- High sound pressure level with maximum definition, absolutely flat frequency and phase responses.
- Low susceptibility to feedback. Excellent intelligibility, no distortion or coloration.
- 2 class AB MosFet power amplifiers deliver a total output power of 500 W (LF 350 W, HF 150 W).
- 129 dB max SPL.
- Specially designed coaxial unit:
  - 15" neodymium magnet woofer
  - 1.5" neodymium compression driver with titanium diaphragm and 3" voice coil.
- Strong and sturdy cabinet made from high grade phenyl-glued multiply birch and finished with highly resistant antiscratch polyurethane black paint.
- Low turbulence tuning ports.
- Ergonomically designed handle, balanced to the box's centre of gravity, make transport easier.
- Controls and connections are conveniently placed on one side of the cabinet for increased ease of use.

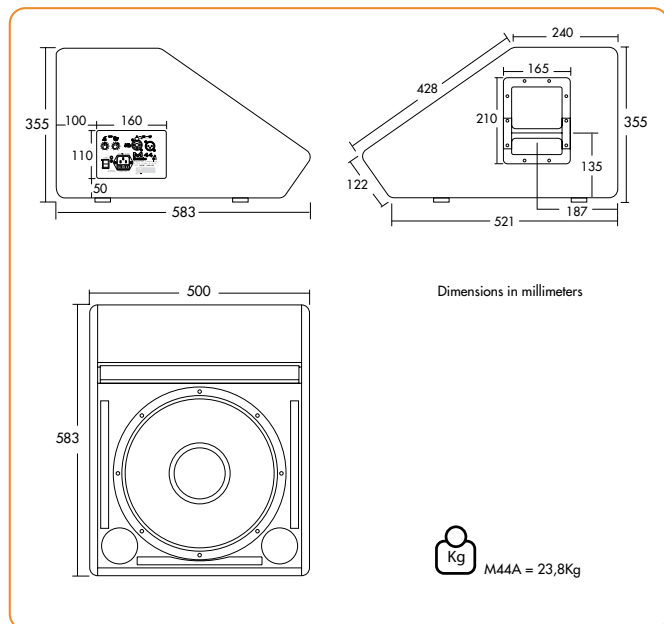
## APPLICATIONS

- M44A has been specially designed to provide elevated sound pressure levels without neglecting any detail of the low-pitched range. It is the perfect solution for drummers and bass players, guaranteeing excellent performance even under the most challenging stage conditions.
- The dual angle cabinet's profile allows for maximum setup flexibility and helps in optimizing listening, from short or long distances.

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## TECHNICAL SPECIFICATIONS

Enclosure	low profile 2-way vented box
Frequency response	42 Hz ÷ 20 kHz ±3dB
Sensitivity	101 dB SPL @ 1W/1m on axis
Max. SPL	129 dB
Max. power	500 W (LF 350 + HF 150)
• Components	ccustom designed, coaxial loudspeaker
- bass frequencies	15" high efficiency neodymium magnet woofer (3" voice coil)
- mid/high frequencies	1.5" neodymium compression driver (titanium diaphragm - 3" voice coil)
Impedance	8 ohms
Frequency response	bass frequencies: 42 Hz ÷ 1000 Hz mid/high frequencies: 1000 Hz ÷ 20 kHz
• Active electronic x-over	24 dB/oct (Linkwitz-Riley)
Crossover frequency	1000 Hz
• Built-in amplifiers	2 MosFet, class AB, dedicated power unit with 2 independent dynamic processors and 'soft start' circuit
Max. output power	500 W
- LF	350 W (4 ohms / 0,1% THD)
- HF	150 W (8 ohms / 0,1% THD)
Frequency response	10 Hz ÷ 40 kHz +0/-1dB
Input impedance	10 kohm (balanced)
Input sensitivity	0 dBu (775mV)
Noise referred to input	- 110 dB (A weighted)
• Connections	balanced Neutrik Combo® input balanced XLR output (link)
• Controls	master volume control high level control
<b>PHYSICAL SPECIFICATIONS</b>	
• Construction	multiply birch; antiscratch polyurethane paint; powder coated steel protection grille
• Fittings	carrying handle
• Dimensions / Weight	W 50 x H 35.5 x D 58.3 cm / 23.8 kg



PRO - DATA SHEET